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DATE MAILED: 01/29/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/266,935	03/12/1999	WU-BO LI	0942.4560001	6420
75	590 01/29/2002			
STERNE KESSLER GOLDSTEIN & FOX 1100 NEW YORK AVENUE NW SUITE 600 WASHINGTON, DC 200053934			EXAMINER	
			RILEY, JEZIA	
			ART UNIT	PAPER NUMBER
			1656	70

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/266,935	LI ET AL.
Office Action Summary	Examiner	Art Unit
	Jezia Riley	1656
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep	136(a). In no event, however, may a rep	ly be timely filed
<ul> <li>If NO period for reply is specified above, the maximum statutory period</li> <li>Failure to reply within the set or extended period for reply will, by statute</li> <li>Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul> Status	will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 19.	April 2001 .	
2a) This action is <b>FINAL</b> . 2b) ∑ Th	nis action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under	•	•
Disposition of Claims		
4) Claim(s) 55-79 is/are pending in the application	on.	
4a) Of the above claim(s) is/are withdra	wn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>55-79</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	or election requirement.	
Application Papers		
9) The specification is objected to by the Examine	er.	
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the	e Examiner.
Applicant may not request that any objection to th	ne drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).
11) The proposed drawing correction filed on	_ is: a) ☐ approved b) ☐ dis	approved by the Examiner.
If approved, corrected drawings are required in re	ply to this Office action.	
12) The oath or declaration is objected to by the Ex	kaminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority document	ts have been received.	
2. Certified copies of the priority document	ts have been received in App	olication No
<ul> <li>3. Copies of the certified copies of the prio application from the International But</li> <li>* See the attached detailed Office action for a list</li> </ul>	reau (PCT Rule 17.2(a)).	· ·
14) Acknowledgment is made of a claim for domest	·	
<ul> <li>a)  The translation of the foreign language pro 15)  Acknowledgment is made of a claim for domest</li> <li>Attachment(s)</li> </ul>		
1) X Notice of References Cited (PTO-892)	4) Intention Su	Immany (PTO-413) Paner No(e)
2) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Info	ormal Patent Application (PTO-152)
S. Patent and Trademark Office TO-326 (Rev. 04-01)  Office A	ction Summary	Part of Paper No. 20

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 55-79 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 55, for example, discloses a composition for synthesizing a nucleic acid molecule comprising compounds of formula I. Formula I is a molecule where a nitrogen atom is linked to 4 moieties R1, R2, R3, and A. It is described that R1-R3 can be =O. However a compound comprising a nitrogen linked to four =O is unlikely to be stable or to even exist because the maximum valence for a nitrogen atom is 4.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 55-62, 65-79 are rejected under 35 U.S.C. 102(b) as being anticipated by Chamberlin et al. (WO 95/20682).

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Chamberlin et al. discloses the addition of osmolytes, to sequencing reactions and PCR as they are known to destabilize double-stranded DNA, thereby lowering the Tm of the DNA analyzed (see abstract and pages 8-12). Moreover, osmolytes are generally known to stabilize proteins and protect them from denaturation under stress conditions, such as heat.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jezia Riley whose telephone number is 703-305-6855. The examiner can normally be reached on 9:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones can be reached on 703-308-1152. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

January 28, 2002

JEZIA RILEY
PRIMARY EXAMINER